

Michael Shen

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EDUCATION

University of Texas at Austin, College of Natural Sciences

Austin, TX

B.S. in Computer Science, Minor in Business

Present – May 2022

Coursework

Algorithms & Complexity

Data Structures

Operating Systems

Computer Architecture

Modern Web Applications

Artificial Intelligence

Linear Algebra

Programming for Performance/Correctness

Natural Language Processing

University of North Texas, Texas Academy of Mathematics and Science

Denton, TX

Computer Science Track

August 2016 – May 2018

TECHNICAL EXPERIENCE / INTERNSHIPS

RigUp

Austin, TX

Software Engineer Intern

June 2020 – August 2020

- Built a platform that discovers prospective business opportunities through React UI and data dashboards
- Migrated AWS cloud infrastructure to GCP applications and automated development with CircleCI
- Created NodeJS API to process Elasticsearch/Postgres queries and deployed to Google Kubernetes Engine
- Increased performance of data processing by 4x through a distributed computing and pub/sub design

Charles Schwab

Dallas, TX

Software Engineer Intern

June 2019 – August 2019

- Developed customer account features on a large distributed system using Java and Spring MVC
- Collaborated with teams globally in an agile environment to deploy applications to Pivotal Cloud Foundry
- Increased code coverage on team's modules to >80% with JUnit tests and Gherkin BDD tests
- Deployed and supported scalable and high-quality products to achieve optimal customer experience

Computational Epidemiology Research Laboratory

Denton, TX

Research Assistant

August 2016 – May 2018

- Implemented a novel non-stochastic approach to modeling viral outbreaks through graph theory in Java/Perl
- Created a research paper outlining the impacts of quarantine/vaccination strategies on the disease dynamics
- Awarded Siemens Competition Semi-Finalist and 2nd in category at Texas State Science and Engineering Fair

TECHNICAL SKILLS

Programming Languages:

Java, Python, Javascript, HTML/CSS, C++, SQL

Environments/Applications:

UNIX, Git, Xcode, Android Studio

Application Development:

React.js, Node.js, PostgreSQL, Elasticsearch, Spring, TensorFlow

DevOps Tools:

GCP, AWS, Kubernetes, Docker, CircleCI

PROJECTS

UT Austin Convergent

Austin, TX

Build Team Developer

August 2018 – Present

- Lead development on creating a MERN (MongoDB, Express, React, Node) web app from ground up to connect volunteers to individuals with disabilities
- Hosted technical meetings to produce product vision/roadmap and mentored team members on the tech stack

HONORS AND ACTIVITIES

Hack the Northeast

June 2020

- Implemented ASL Buddy, a Python tool using a self-trained Tensorflow model to teach ASL
- Recognized as Most Viable Startup Hack out of >1000 participants (top 4% of hackathon)

Capital One Software Engineering Summit

May 2019

- Accepted to attend engineering summit overviewing the usage and implementation of modern technologies (AWS, iOS/Android, React) within tech companies